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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/585,354	07/06/2006	Osmo Pikkala	1034456-000039	2540	
21839 DIJCHANAN	7590 10/17/200 DICERSOLL & BOOT		EXAMINER		
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ALEXANDRI	A, VA 22313-1404		ART UNIT	PAPER NUMBER	
•.			2832		
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			NOTIFICATION DATE	DELIVERY MODE .	
			10/17/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/585,354	PIKKALA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Marina Fishman	2832	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet wi	th the correspondence address	**************************************
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION IN 1.136(a). In no event, however, may a red will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. eply be timely filed THS from the mailling date of this communic ANDONED (35 U.S.C. § 133).	
Status			•
Responsive to communication(s) filed on <u>06</u> This action is FINAL . 2b)⊠ The 3)□ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matt	• •	ts is
Disposition of Claims			
4) Claim(s) 1-8 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	awn from consideration.		
Application Papers	-		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and accomplicate any not request that any objection to the Replacement drawing sheet(s) including the correct of the second Theorem 11). The oath or declaration is objected to by the second Theorem 21.	ccepted or b) objected to be drawing(s) be held in abeyant action is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.13	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document of the copies of the priority document of the copies of the priority document of the certified copies of the certified copies of the certified copies of the priority document of the certified copies	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage	:
Attachment(s)	🗖	(270	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paner No(s)/Mail Date 07/06/2006	Paper No(s	Summary (PTO-413) S)/Mail Date Informal Patent Application	

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DETAILED ACTION

General status

1. This is a First Action on the Merits. Claims 1 - 8 are pending in the case and are being examined.

Claim Objections

2. Claims 1 – 8 are objected to because of the following informalities:

Claim 1, line 3, "from inside the frame outside the frame" should be changed to – from inside the frame to outside the frame--.

Claims 2 - 8 "A switching device" should be corrected as –The switching device--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, lines 6-7 is not clear what is meant by "wherein in its portion ... gas flow". The Examiner interprets the recitation as --in a portion of the connector ... gas flow--.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Rakus et al. [US 5,969,314].

Rakus et al. disclose a switching device comprising

- a switching device comprising a frame [5, 7];
- a first connector [13, 65], and
- a second connector [15, 95];
- the first connector and the second connector extending from inside
 the frame to outside the frame,;
- means [23] for connecting the first and the second connector
 electrically to one another; and
- one or more gas flow openings [not numbered, disclosed in Figure 2] provided in the frame and arranged for a gas flow produced by a switching event, wherein in a portion of the first connector remaining inside the frame, the first connector comprises a hole [97, Figure 4] provided for said gas flow.

Regarding Claim 2, the frame includes an upper part [5] and a lower part [7], the lower part being arranged to reside in the vicinity of frame structures of a mounting space, such as a switchgear cubicle, and that wherein each of said gas flow openings [only top holes close to upper part [5] are considered] provided in the frame resides

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farther from the lower part of the switching device than the first connector and the second connector.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lemmer et al. [US 4,401,863] in view of Rakus et al. [US 5,969,314].

Lemmer et al. disclose a switching device comprising:

- a switching device comprising a frame [1, 2];
- a first connector [3]; and
- a second connector [4];
- the first connector and the second connector extending from inside
 the frame to outside the frame;
- means [7, 18] for connecting the first and the second connector electrically to one another; and
- one or more gas flow openings [not numbered] provided in the frame and arranged for a gas flow produced by a switching event.

Lemmer et al. discloses all the claimed elements except for one or more gas openings and a portion of the first connector remaining inside the frame, the first connector comprises a hole. Lemmer et al. also discloses are quenching plates [21],

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and gap between the means for connecting [7,18] and the plates [Figure 6] on either side of means for connecting the contacts, which would form openings for the gases. Rakus et al. disclose a first connector [65] remaining inside the frame comprises a hole [97]. It would have been obvious to one of ordinary skill in the art at the time the invention is made to provide a hole in the first connector of Bolongeat-Mobleu et al., as suggested by Rakus et al. in order to concentrate arc near the center of the arcing contact [Rakus et al., column 5, lines 52-54] and provide gas openings at in the top frame for exhausting the gases.

Regarding Claim 2, the frame includes an upper part and a lower part, the lower part being arranged to reside in the vicinity of frame structures of a mounting space, such as a switchgear cubicle, and that wherein each of said gas flow openings provided in the frame resides farther from the lower part of the switching device than the first connector and the second connector. Regarding Claims 3 and 6, Lemmer et al. discloses the first connector and the second connector are identical with one another. Regarding Claims 4, 5, 7 and 8, Lemmer et al. disclose the claimed invention except for specific dimensions of the gas flow openings. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide proper size of gas opening in a proper orientation, since it has been held that change in size or shape, only requires routine skill in the art. [In Re Rose 220 F2d 1048, 189 USPQ 143 (CCPA 1976) and In Re Dailey 357 F2d 669, 149 USPQ 47 (CCPA 1966). The motivation for providing the gas opening is to properly exhaust the gases away from the contacts.

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Fishman whose telephone number is 571-272-1991. The examiner can normally be reached on 7-5 M-T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marina Fishman October 11, 2007

SUPERVISORY PATENT EXAMINE